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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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SHEET

1

OF

2

Complete if Known

Application Number: 10/098,604

Filing Date: 3/16/2002

First Named Inventor: M. Seul

Group Art Unit:

Examiner Name:

Attorney Docket Number: Parse

Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
PK	3671614		Carreira	4/13/1997
PK	5510270		Fodor, et al.	4/23/1996

FOREIGN DOCUMENTS

Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY		Translation
	Office	Number	Kind Code (if known)				
PK	PCT	WO 96 07917		Nanogen	03/14/1996		
PK	PCT	WO 91/19023 A		Savin. Corp	12/12/1991		
PK	GB	GB 2 058 379 A		AGFA Gevaert	04/08/1981		

Examiner Signature	<i>PK JSK</i>	Date Considered	3/25/05
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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SHEET

2

OF

2

Application Number: 10/098,604

Filing Date: 3/16/2002

First Named Inventor: M. Seul

Group Art Unit:

Examiner Name:

Attorney Docket Number: Parse

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume- issue number(s),	T ₂
Sh		YEH, S.R., et al. "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow". <i>Nature</i> , Mar. 6, 1997: 57-59. Vol 386, No 6620	
Sh		YELLEN, B.B. et al., "Programmable Assembly of Colloidal Particles Using Magnetic Microwell Templates" <i>Langmuir</i> page est. 6.5 (2004)	
Examiner Signature	[Signature]		Date Considered 3/25/05

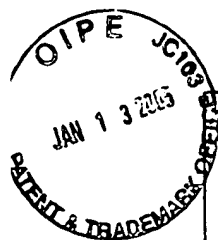
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SHEET

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1

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Application Number: 10/098,604

Filing Date: 3/16/2002

First Named Inventor: Seul

Group Art Unit:

Examiner Name:

Attorney Docket Number: PARSE

FOREIGN DOCUMENTS

Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY		Translation
	Office	Number	Kind Code (if known)				
PK	PCT	WO 98/04950					

Examiner Signature	<i>PK B. H.</i>	Date Considered	3/25/05.
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) SHEET <input type="text" value="1"/> of <input type="text" value="1"/>	Complete if Known	
	Application Number: 10/098,604	
	Filing Date: 3/16/2002	
	First Named Inventor: M. Seul, et al.	
	Group Art Unit: 2851	
	Examiner Name:	
Attorney Docket Number: PARSE-US		

Exami ner Initials	U.S. Documents	U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number		
PK	US 5,480,723	Klainer et al.	01/02/1996
	US 5,814,524	Walt et al.	09/29/1998
	US 5,496,997	Pope	03/05/1996
	US 5,512,490	Walt et al.	04/30/1996
	US 5,565,324	Still et al.	10/15/1996
	US 5,567,627	Lehnen	10/22/1996
	US 5,633,724	King et al.	05/27/1997
	US 5,633,972	Walt et al.	05/27/1997
	US 5,650,488	Lam et al.	07/22/1997
	US 5,652,059	Margel	07/29/1997
PK	US 5,674,698	Zarling et al.	10/07/1997

Examine r Signatur e		Date Considered	3/25/05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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SHEET 1 OF 12

Compleat If Known

Application Number: 10/098,604

Filing Date: 3/16/2002

First Named Inventor: M. Seul, t al.

Group Art Unit:

Examiner Name:

Attorney Docket Number:

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Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
PK	5,723,233		Garza et al.	2/1996
↓	4,806,776		Kley	8/1985
	6,141,046		Roth et al.	10/31/2000
	6,018,350		Lee, et al.	1/25/2000
	6,023,590		Abe, et al.	2/8/2000
	6,025,905		Sussman	2/15/2000
	6,123,263		Feng	9/26/2000
	6,151,062		Inoguchi et al.	11/21/2000
	3,948,525		Gylla	12/1976
	3,982,182		Hogy	9/1976

FOREIGN DOCUMENTS

Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)			

Examiner Signature	<u>PK B. K</u>	Date Considered	<u>11/12/04</u>
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Notice of References Cited



Application/Control No.

10/098,604

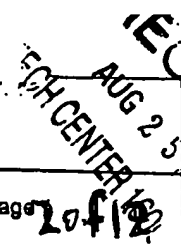
Applicant(s)
Reexamination
SEUL, MICHAEL

Examiner

Art Unit

Page

20 of 12



U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5,747,349	05-1998	van den Engh et al.	436
	B	US-5,900,481	05-1999	Lough et al.	536
	C	US-6,133,436	10-2000	Koster et al.	536
	D	US-6,084,991	07-2000	Sampas	382
	E	US-5,442,246	06-1995	Koopal et al.	435
	F	US-			
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	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

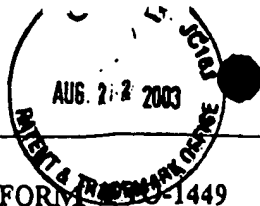
FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	WO 99/18434	04/15/99	PCT		
	O	WO 99/19515	04/22/99	PCT		
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
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* A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



FORM 1-1449 INFORMATION DISCLOSURE CITATION	Attorney Docket: VARSE	Serial No.: 10/098,604
	Applicant: Seul et al.	
	Filing Date: 3/16/2001	Group Art Unit: 1

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Name	Class	Sub-Class	Filing Date
<i>PK</i>	5,281,370	01/25/94	Asher et al.			
	5,516,635	05/15/96	Ekins et al.			
	5,518,883	05/21/96	Soini			
	5,415,835	05/16/95	Brueck			
	5,604,097	02/18/97	Brenner			
	5,800,992	09/01/98	Fodor			
	6,023,540	02/08/00	Walt et al.			
	6,327,410	12/04/01	Walt et al.			
	6,266,459	07/24/01	Walt et al.			
	6,429,027	08/06/02	Chee et al.			

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FOREIGN PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Country	Class	Sub-Class	Translation
<i>PK</i>	WO 93/02360	02/04/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>PK</i>	WO 96/03212	02/08/96	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>PK</i>	1,248,873	01/17/89	Canada			<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>PK</i>	WO 93/06121	04/01/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
						<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)

	Materials from Freedom of Information Act pertaining to David R. Walt

Examiner <i>Peter P. Han</i>	Date Considered 11/12/04
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

FORM PTO-1449
(REV. 7-80)

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U.S. DEPARTMENT OF COMMERCE
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ATTY. DOCKET NO.:

PARSE

SERIAL NO.:

10/098,604

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE:

3/16/2002

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PK	AA	4 4 9 9 0 5 2	2/12/85	Fulwyler	422	52	8/30/82
	AB	4 6 4 7 5 4 4	3/3/87	Nicoli et al.	438	518	6/25/85
	AC	4 8 2 2 7 4 8	4/18/89	Walt	438	528	6/25/86
	AD	4 9 8 4 3 7 3	2/18/91	Stavrianopoulos et al.	435	6	7/20/89
	AE	5 0 0 2 8 6 7	3/26/91	Macevich	435	6	10/24/88
	AF	5 0 2 8 5 4 5	7/2/91	Soini	436	501	6/9/88
	AG	5 1 0 5 3 0 5	4/14/92	Betzig	359	368	1/10/91
	AH	5 1 1 4 8 6 4	5/19/92	Walt	438	528	9/19/89
	AI	5 1 3 2 2 4 2	7/21/92	Chaung	436	501	11/13/89
	AJ	5 1 3 2 0 9 7	7/21/92	Van Deusen et al.	422	82.09	9/4/90
	AK	5 1 4 3 8 5 3	8/1/92	Walt	438	501	2/2/89

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
PK	AL	0 2 8 9 7 6 4	8/8/88	EP	C12Q	1/68		X
	AM	0 4 7 8 3 1 9	4/1/92	EP	C12Q	1/68		X
	AN	0 7 2 3 1 4 6	7/24/96	EP	G01N	21/64		X
	AO	8 8 1 1 1 0 1	11/16/89	PCT	G01N	33/546		X
	AP	9 3 0 2 3 6 0	2/4/93	PCT	G01N	33/536		X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PK	AQ	Peterson, et al. "Fiber optic pH probe for physiological use," Anal. Chem. Vol. 52, 864-869 (1980)
	AR	Peterson, et al. "Fiber-Optic Sensors for Biomedical Applications," Science, 13: 123-127 (1984).
	AS	Fuh, et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112: 1159-1163 (1987).

EXAMINER

P. B. Kim

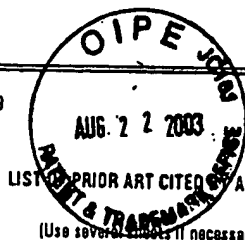
DATE CONSIDERED

11/12/04

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FORM PTO-1449
(REV. 7-80)



U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: PARSE

SERIAL NO.: 60/098,604

APPLICANT(S): SEUL, Michael

FILING DATE: 3/16/2002

GROUP:

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<u>PK</u>	BA	5 1 8 4 3 0 0	3/16/93	Cheung	427	213.31	11/8/89
	BB	5 2 4 4 8 1 3	9/14/93	Walt et al.	436	172	4/20/92
	BC	5 2 4 4 8 3 8	9/14/93	Walt et al.	422	82.07	1/25/91
	BD	5 2 5 0 2 6 4	10/5/93	Walt et al.	422	82.07	12/21/92
	BE	5 2 5 2 4 9 4	10/12/93	Walt	436	528	3/30/92
	BF	5 2 5 4 4 7 7	10/18/93	Walt	436	172	9/19/91
	BG	5 2 9 8 7 4 1	3/29/94	Walt et al.	250	227.23	1/13/93
	BH	5 3 0 6 8 1 8	4/26/94	Prober et al.	435	8	1/16/92
	BI	5 3 2 0 8 1 4	8/14/94	Walt et al.	422	82.07	11/25/92
	BJ	5 3 8 2 6 5 3	11/8/94	Carr et al.	436	165	5/6/92
	BK	5 4 0 5 7 8 4	4/11/95	Van Hoegaerden	436	523	2/25/93

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<u>PK</u>	BL	9 3 0 6 1 2 1	4/1/93	PCT	C07H	21/00		X
<u>PK</u>	BM	9 3 2 4 5 1 7	12/9/93	PCT	G07K			X
<u>PK</u>	BN	9 7 1 4 0 2 8	4/17/97	PCT	G01N	15/10		X
	BO							
	BP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<u>PK</u>	BQ	Barnard, et al., "A fibre-optic chemical sensor with discrete sensing sites," Nature, vol. 353: 338-340 (1991).
	BR	Campion, et al., "Colored and Fluorescent Solid Supports," Innovation and Perspectives in Solid-Phase Synthesis. Ed: E. Birmingham (Mayflower, London), pp. 469-472 (1994).
	BS	Pope, "Fiber optic chemical microsensors employing optically active silica microspheres," SPIE, vol. 2388 : 245-256 (1995).

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PK

DATE CONSIDERED

4/12/04

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APPLICANT NO.

SERIAL NO.

PARSE

10/098

LIST OF PRIOR ART CITED BY APPLICANT

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APPLICANT(S): SEUL, Michael

FILING DATE: October 17, 2000

3/16/2002

GROUP:

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CA	5 4 8 0 7 2 3	1/8/98	Kilmer et al.	428	441	5/17/94
CB	5 4 1 4 5 2 4	8/28/98	Walt et al.	436	518	12/14/95
CC	5 4 8 8 8 8 7	3/5/98	Cope	250	227.21	1/3/94
CD	5 5 1 2 4 8 0	4/30/98	Walt et al.	438	171	8/11/94
CE	5 5 8 5 3 2 4	10/19/98	Birn et al.	435	6	4/13/94
CF	5 5 8 7 8 2 7	10/22/98	Leffert	436	518	11/5/93
CG	5 5 3 3 7 2 4	8/27/97	Kang et al.	358	445	8/29/95
CH	5 5 3 3 8 7 7	8/27/97	Walt et al.	385	116	11/29/95
CI	5 5 5 0 4 8 8	7/23/97	Lynn et al.	530	334	6/19/93
CJ	5 5 8 2 0 5 8	7/29/97	Morphy	428	403	1/25/95
CK	5 5 7 4 8 9 8	10/7/97	Young et al.	435	7.92	3/30/95

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
CL					YES
CM					
CN					
CO					
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(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

LIST OF PRIOR ART CITED BY APPLICANT

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ATTY. DOCKET NO.: PARSE

SERIAL NO.: 10/008,604

APPLICANT(S): SEUL, Michael

FILING DATE: 3/6/2002

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<u>P/K</u>	DA 5 8 9 0 8 9 4	11/25/97	Pinkel et al.	422	68.1	5/23/95
	DB 5 7 0 0 8 9 7	12/23/97	Klainer et al.	528	15	5/30/95
	DC 5 7 7 9 9 7 6	7/14/98	Leland et al.	422	52	6/5/95
	DD 5 8 3 8 0 2 1	8/17/99	Hansen et al.	422	55	1/23/97
	DE 5 9 8 1 9 2 3	10/5/99	Nove et al.	422	68.1	9/30/96
	DF 5 8 8 5 4 5 2	10/12/99	Kovacs	438	149	7/9/96
	DG 6 0 4 8 8 9 0	4/11/00	Heller et al.	435	8	5/14/97
	DH 6 0 9 0 5 4 5	7/18/00	Wohlstadter et al.	435	8	3/6/97
	DI 6 0 9 0 9 1 2	7/18/00	Lebl et al.	530	300	11/23/98
	DJ 8 2 0 0 7 3 7	3/13/01	Walt et al.	430	320	8/24/95
	DX					

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
DL					
DM					
DN					
DO					
DP					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<u>P/K</u>	DQ	Egner, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun. pp. 735-738 (1997)
	DR	Fulton, et al., "Advanced multiplexed analysis with the FlowMatrix system," Clinical Chemistry, vol. 43:9, pp. 1749-1756 (1997).
	DS	Scott et al., "Properties of fluorophores on solid phase resins; implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1567-1572 (1997).

EXAMINER

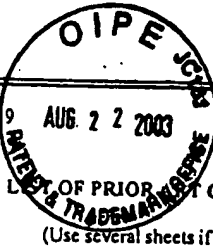
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AUG 22 2003

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.:

PARSE

SERIAL NO.:

10/049,600

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE:

3/16/2002

GROUP:

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AUG 25 2003
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA						
	EB						
	EC						
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	EH						
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	EJ						
	EK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	EL							
	EM							
	EN							
	EO							
	EP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<u>24</u>	EQ	Healey et al., "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).
<u>24</u>	ER	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998)
	ES	

EXAMINER

PA BK

DATE CONSIDERED

3/25/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(REV. 7-80)

AUG. 22 2003

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 10/098 COLA

SERIAL NO.: 10/098, 10/099

LIST OF PRIOR ART CITED BY APPLICANT

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APPLICANT(S): SEUL, Michael

FILING DATE: 03/16/2002

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AUG 25 2003
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA					
	BB					
	BC					
	BD					
	BE					
	BF					

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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	BH				
	BI				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

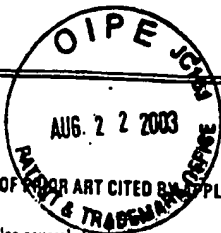
PK	BJ	Trau et al., "Field-Induced Layering of Colloidal Crystals," <i>Science</i> , vol. 272: 708-709 (1996)
	BK	Seul et al., "Domain Shapes and Patterns: The Phenomenology of modulated Phases," <i>Science</i> , vol. 267: 478-483 (1995)
	BL	Schena et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , vol. 270: 487-470 (1995)
	BM	Haab et al., "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," <i>Analytical Chemistry</i> , vol. 67 (No. 18): 3253-3258 (1995)
	BN	Richetti et al., <i>J. Physique Lettr.</i> , vol. 45: L-1137 to L-1143 (1984)
	BO	Sze, "MIS Diode and Charge-Coupled Device," <i>The Physics of Semiconductors</i> , Chapter 7, pp. 362-430 (2nd Edition) (Wiley Interscience 1981)
	BP	
	BQ	
	BR	

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PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.:

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PARSE

10/048,604

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APPLICANT(S): SEUL, Michael

FILING DATE:

3/16/2002

GROUP:

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Pn	AA	3	9	9	8	5	2	5	12/21/78	Giglia	350	160	08/21/75
	AB	4	0	7	5	0	1	3	02/21/78	Ward et al.	86	1.5	09/13/76
	AC	4	4	5	6	5	1	3	06/28/84	Kewal et al.	204	180	08/25/82
	AD	4	5	7	5	4	0	7	03/11/88	Diller	204	67	10/24/84
	AE	4	5	9	1	5	5	0	05/27/88	Hafeman et al.	435	4	04/05/84
	AF	5	4	4	4	3	3	0	08/22/95	Leventis et al.	313	506	02/18/93
	AG	5	5	8	7	1	2	8	12/24/96	Widing et al.	422	50	11/14/94
	AH	5	4	9	8	3	9	2	03/12/96	Widing et al.	422	68.1	09/19/94
	AI	5	8	5	5	7	5	3	01/05/99	Trau et al.	204	484	11/26/96
	AJ	6	0	3	3	5	4	7	03/07/00	Trau et al.	204	622	01/04/99
	AK												

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
Pn	AL	9	6	0	4	5	4	7	02/15/96	PCT	601N	27/00		X
	AM													
	AN													
	AO													
	AP													

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Pn	AR	Yeh, et al., "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow," <i>Nature</i> , vol. 386.6: 57-59 (1997)
	AS	Giersig et al., "Formation of ordered two-dimensional gold colloid lattices by electrophoretic deposition," <i>J. Phys. Chem.</i> , vol. 97: 6334-6336
	AT	Seul et al., "Scale transformation of magnetic bubble arrays: coupling of topological disorder and polydispersity," <i>Science</i> , vol. 262: 558-560 (1993)

EXAMINER

Peter B. Kim

DATE CONSIDERED

11/12/04

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APPLICANT(S): SEUL, Michael

FILING DATE:

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GROUP: 100

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
P/K	AA	4 7 1 7 6 5 5	01/05/88	Fulwyler	435	7	10/15/84
	AB	5 5 7 3 9 0 9	11/12/86	Singer et al.	435	6	05/20/94
	AC	5 5 8 5 0 6 9	12/17/86	Zanzucchi et al.	422	100	11/10/94
	AD	5 5 9 3 8 3 8	01/14/97	Zanzucchi et al.	435	6	05/31/95
	AE	5 7 2 3 2 1 8	03/03/98	Haugland et al.	428	402	06/07/95
	AF	5 7 4 4 3 0 5	04/28/98	Fodor et al.	435	8	06/06/95
	AG	5 8 0 7 7 5 5	09/15/98	Ekins	438	518	05/23/95
	AH	5 8 3 7 5 5 1	11/17/98	Ekins	436	518	12/23/94
	AI	5 8 7 4 2 1 8	02/23/99	Rave et al.	435	8	04/09/96
	AJ	5 8 8 8 8 3 5	11/23/99	Dunlay et al.	435	7.2	02/27/97
	AK	8 0 2 3 5 4 0	02/08/00	Walt et al.	385	12	03/14/97

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES - NO
P/K	AL	9 5 1 2 8 0 8	05/11/95	PCT	G01N	21/00	X
	AM	9 8 0 7 9 1 7	03/14/98	PCT	G01N	35/00	X
	AN	9 7 4 0 3 8 3	10/30/97	PCT	G01N	33/543	X
	AO	9 8 0 6 0 0 7	02/12/98	PCT	G03F	7/00	X
	AP	9 8 5 3 3 0 0	11/26/98	PCT	G01N	21/00	X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

P/K	AR	Micheletto et al., <i>Langmuir</i> , vol. 11, 3333-3338 (1995)
P/K	AS	Negayama et al., <i>Phase Transitions</i> , vol. 45, 185-203 (1993)
	AT	

EXAMINER

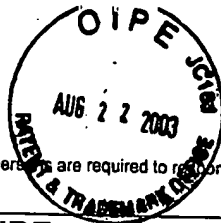
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SHEET 12 OF 12

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Application Number: 10/048,604

Filing Date: 3/16/2002

First Named Inventor: M. Seul, et al.

Group Art Unit:

Examiner Name:

Attorney Docket Number: PARSE

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Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
RL ↓	6,083,763		Balch	7/4/2000
	6,172,218 B1		Brenner	1/9/2001
	5,415,839	DUPLICATE	Brueck, et al.	5/16/1995
	6,429,027 B1	DUPLICATE	Chee et al.	8/6/2002
	5,532,128		Eggers et al.	7/2/1996
	5,516,635		Ekins et al.	5/14/1996
	5,961,923		Nova et al.	10/5/1999

FOREIGN DOCUMENTS

Examiner Initials	Foreign Patent Documents		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number Kind Code (if known)			
RL		WO 00/04372	Anstyn, et al.	1/27/2000	
RL		WO 99/60170	Baier, et al.	11/25/1999	
RL		WO 98/40726	Walt, et al.	2/8/2000	
RL		WO 00/03004	Fechter, et al.	1/20/2000	
RL		WO 00/75373	Walt, et al.	12/14/2000	

Examiner Signature	<u>[Signature]</u>	Date Considered	<u>4/8/05</u>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number: 10/098,604

Filing Date: 3/16/2002

First Named Inventor: Seul

Group Art Unit:

Examiner Name:

Attorney Docket Number: PARSE

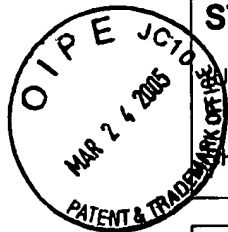
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Examiner Initials	Foreign Patent Documents		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY		Translation
	Office	Number Kind Code (if known)				
	PCT	WO 93/02360				
	PCT	WO 93/06121				
	PCT	WO 00/03004				

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